Concept Pro

DATASHEET

PROFESSIONAL REMOTE MONITORING

VXH264

DIGITAL VIDEO RECORDER

H.264

Videcon PLC

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H.264 | Colour Coded GUI | Professional Monitoring | Panorama Search | Smartphone | Remote Connection

Concept Pro

3 YEAR WARRANTY

VXH264

VXH264 Range of Digital Video Recorders
Incorporating professional remote monitoring

Colour Coded GUI

Enhanced On-screen Operation

The GUI operation is brilliantly simple. Using colour-coded menus and various control options it is easy to program and operate.

Navigation is quick thanks to a status bar and shortcut menu on all live view displays, which assists with 'one click' access to each main function.

Professional Monitoring

Making a professional monitoring service accessible to all

Every Concept Pro VXH264 digital video recorder is compatible with the Immix software platform, used by many leading central monitoring stations across the UK and Ireland.

Requirements

- Broadband connection
- Router
- Contact your preferred station

Panorama Search

24 hour single-channel overview

The panorama search facility allows the user to select a single channel over a 24 hour period which is displayed on-screen in 8 intervals of 3 hours.

In the example above, we are looking for an individual walking away from the scene. As opposed to viewing a single time of day from the selected camera, 8 time intervals are displayed at once. Using the fast forward function at the selected time interval, the individual can be identified within minutes.

Instant Playback

Rapid Response

The instant playback function allows users to select and view recently recorded footage at the push of a button. Footage from a selected camera can be instantly accessed from the live view screen.

By removing the necessity of accessing menus, users can react to an incident more quickly.

Smartphone

Connection via web browser

The VXH264 range of digital video recorders can be accessed by using any smartphone with a web browser. All channels can be viewed, giving users peace-of-mind that they can monitor their premises or residence anywhere their network operator provides coverage.

Remote Connection

Via web browser

Remote connection to the VXH264 digital video recorder can be made via a PC web browser. Users can take control of key digital video recorder functions.

- Live view
- Search & playback
- Archiving
- PTZ control
- Two-way audio
- Digital video recorder configuration
- Event log function
- Digital video recorder operational status – alarm, motion, video loss, recording & alarm out

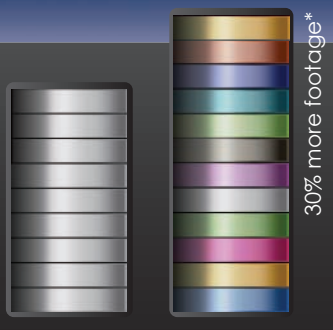
H.264

H.264

Powerful Compression

The Concept Pro VXH264 digital video recorder utilises H.264 video compression, which delivers longer recording times than MPEG4 and JPEG compression formats.

The H.264 compression format is network friendly, lowering the demand for bandwidth over a local area network or remote connection.



*When compared to MPEG4 Compression

Available with 4, 8 or 16 Channel
Wide range of storage capacity

How to program the VXH264

Digital video recorder front panel

The GUI set-up menu is clearly structured and easy to navigate from the front panel

USB Mouse

The VXH264 offers the benefit of mouse control, making it quicker and easier to navigate through the on-screen display

USB stick upload

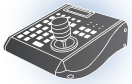
Preferred configurations can be saved to USB stick and subsequently uploaded on other units which require an identical configuration

Remote connection

The VXH264 can be programmed, saved and uploaded over a LAN / WAN connection.

IR Remote Control

An IR Remote Control is included with every unit and is a convenient way for a user to configure and operate the VXH264.



Concept Pro VA-KBDPRO+

The VA-KBDPRO+ can control one or more VXH264 units and is compatible with many telemetry protocols including Pelco-P and Pelco-D

Genuine Pentaplex

The VXH264 digital video recorder operates 5 key functions simultaneously without affecting the frame rate:

- Recording
- Playback all channels simultaneously
- Live view
- Network playback/Live view
- Local/Network remote set-up

CMS PRO

Every Concept Pro VXH264 is compatible with our free central monitoring software. Ideal for multi-site operations, the Concept Pro VXH264 allows users to connect, view and operate up to 64 channels simultaneously, creating a central monitoring station at the host computer.

Reserve Data Management

Recorded events can be 'reserved' to a data management screen. This function allows the user to build up a list of events for easy and convenient archiving. The data management screen logs the number of 'burns' for each event.

Real-time Recording

The complete range of VXH264 digital video recorders can record at **25FPS @ CIF** across all channels (2CIF on 4Ch). D1 recording resolution can be achieved at 7FPS across all channels.

Channel frame rates can be programmed individually to achieve a balance between the quality of footage, the internal storage available and the number of channels in use on the digital video recorder.

Archiving

Video footage can be archived by

- USB stick
- DVD
- External HDD storage
- Remote network
- Local PC through remote connection

The archive footage is watermarked and packaged with the video codec needed to play the file*. The archive action is recorded in the digital recorder event log.

*Note: The video codec is not packaged when archiving via remote connection

Extensive Monitor Support

The following monitor outputs are available

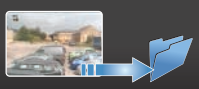
- BNC
- DVI - VGA Convertor Supplied (4ch only)
- VGA (8 and 16ch only)
- S-Video (8 and 16ch only)
- HDMI – High-definition media interface (8 and 16ch only)

The HDMI port can deliver a resolution of up to 1024 x 768 with our VLCDMB range of monitors.

User Profiles

Up to 8 user profiles can be stored on the Concept Pro at 3 levels - administrator, manager and user. The administrators can allow or restrict operation for an individual user from the following functions:

- Access to setup
- Search facility
- Remote connection access
- PTZ control
- Archive menu



Instant Archive

The instant archive function allows a user to easily archive during playback. By removing the need to access the menu structure archiving is made simpler and quicker.

Digital Video Recorder System Health Check

The VXH264 monitors both the internal hard drives and digital recorder software. If any abnormalities are detected a user can be notified by email or alarm output.

Activity Log Preview

The Concept Pro VXH264 digital video recorder stores all recorded events in a central activity log. The central log is an itemised, chronological list of events which allows the user to quickly view each recorded event in a preview window.

Seamless Integration with Concept Pro Products

The VXH264 is compatible with multiple telemetry protocols and can be used with the Concept Pro Product VA-KBDPRO+ keyboard and VA-MAT162 matrix.

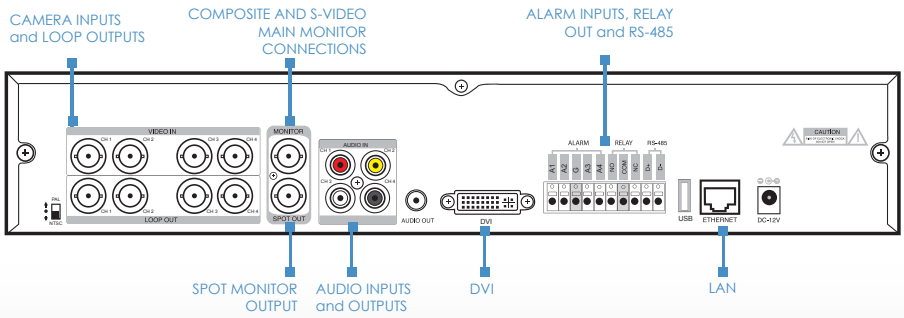
Easy to understand UK manual

The Concept Pro VXH264 user manual has been written in the UK by our technical team. It has been written with the installer in mind, taking the reader through the machine using step-by-step instructions.

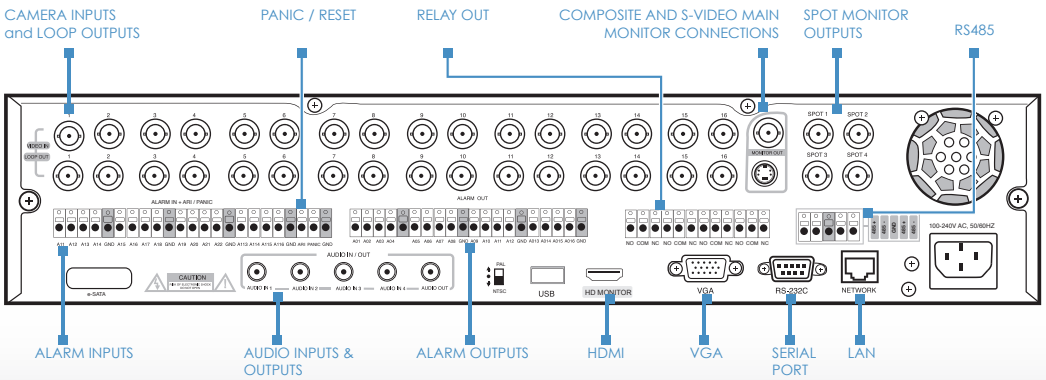
Every Concept Pro VXH264 digital video recorder is supported by a helpline staffed by our technical team. +44(0)1924 528004.

REAR PANEL DESCRIPTION

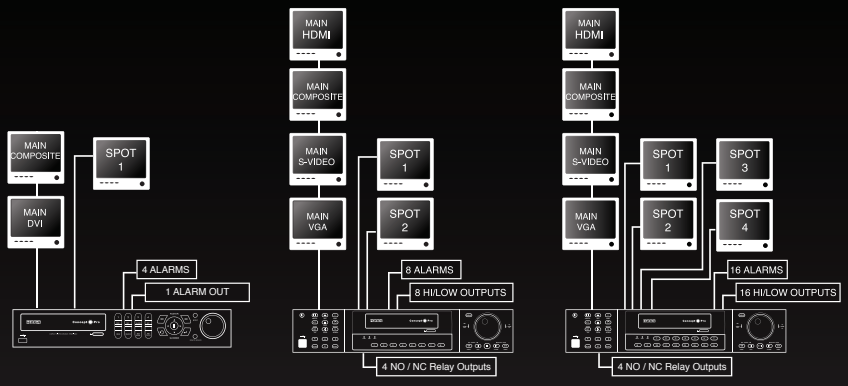
VXH264-4

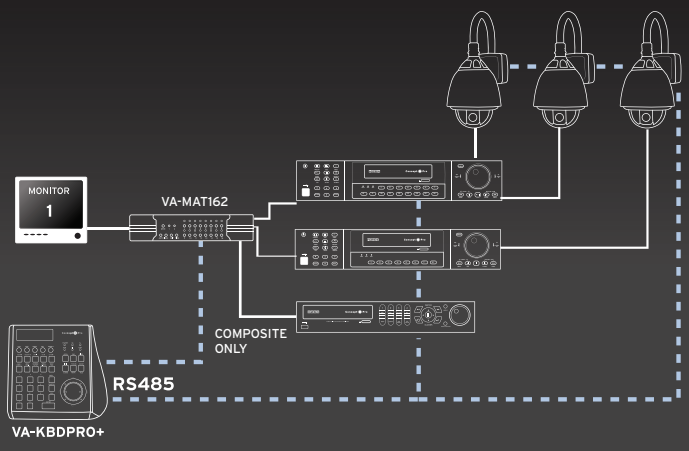


VXH264-16



Monitor & Alarm Configurations





Recording Times

CIF	500GB	1Tb	2Tb	3Tb	4TB	6TB	8TB
4CH 25 fps	15 days	30 days	N/A	N/A	N/A	N/A	N/A
8CH 25 fps	8 days	16 days	32 days	48 days	64 days	96 days	128 days
16CH 25 fps	4 days	8 days	16 days	24 days	32 days	48 days	64 days

2CIF	500GB	1Tb	2Tb	3Tb	4TB	6TB	8TB
4CH 25 fps	7.5 days	15 days	N/A	N/A	N/A	N/A	N/A
8CH 13 fps	4.4 days	8.8 days	17.6 days	26.4 days	35.2 days	52.8 days	70.4 days
16CH 13 fps	2.2 days	4.4 days	8.8 days	13.2 days	17.6 days	26.4 days	35.2 days

D1	500GB	1Tb	2Tb	3Tb	4TB	6TB	8TB
4CH 13 fps	4.8 days	9.7 days	N/A	N/A	N/A	N/A	N/A
8CH 7 fps	3.7 days	7.4 days	14.9 days	22.3 days	29.8 days	44.6 days	59.6 days
16CH 7 fps	1.8 days	3.7 days	7.4 days	11.1 days	14.9 days	22.3 days	29.8 days

Recording times are given for guidance only and can vary depending on the nature of the scenes being recorded.

A comprehensive recording calculator allowing individual settings to be configured for all channels is available to download at www.videcon.co.uk

Concept Pro

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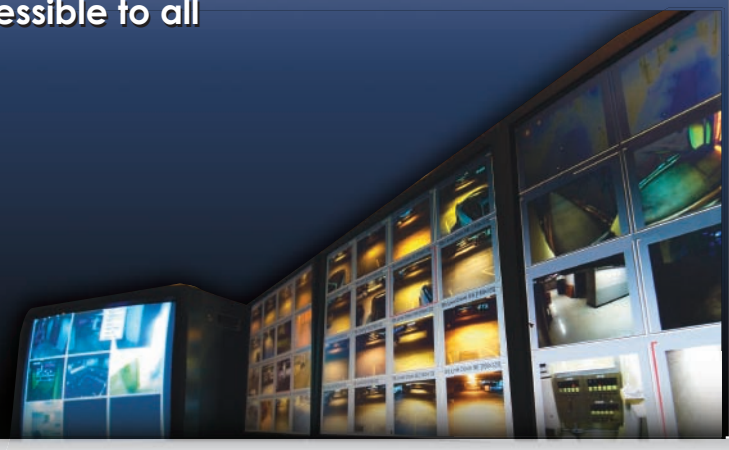
Professional Monitoring

Making professional monitoring accessible to all



With the VXH264 digital video recorder, a professional remote monitoring service is now accessible to end users of all budgets.

What is professional remote monitoring?

The most efficient way of monitoring your CCTV for every pound spent

Remote monitoring is a service given by a central monitoring station which will monitor the CCTV system on a premises. Central Monitoring provides an effective monitoring service as the operator will receive only alarm-triggered events to view, verify and respond to based on pre-determined actions set by the end-user.

Why would I offer Professional Remote Monitoring?

You can offer more at no extra cost

The VXH264 and a professional monitoring service offers the chance for any customer to have access to a high quality, effective monitoring solution they could not have previously afforded.
A professional monitoring service can offer cost-effective protection for vulnerable and at-risk workers, particularly out of hours. By outsourcing your monitoring needs, security managers have the flexibility to reduce the cost of their in-house security operation.

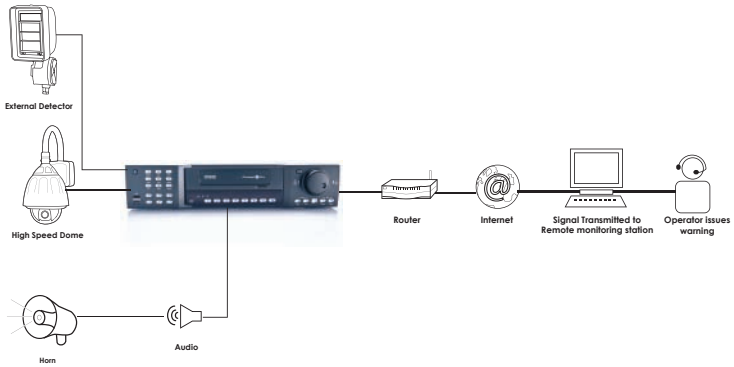
What do I need to do to connect to a central station?

Connecting to a Central Station could not be simpler

- Install a VXH264 Digital Video Recorder - Compatible with Central Monitoring Stations hosting the Immix Software platform all over the UK and Ireland
- Connect to a router and broadband line
- Set-up of the email-send facility takes under 5 minutes. Following the configuration and setting the port forward, the machine can be connected to any Immix Central Station with one phone call.

Connecting the VXH264 to a remote monitoring station

The customer's site security installation is connected to by broadband line.



The remote monitoring station detects alerts and events based on site equipment such as PIR detectors and access control points. The event is then verified visually using the CCTV system to check if it is a false alarm. Should the event be a genuine threat, action can be taken based on a set of predetermined instructions agreed by the end-user.

Example system specification

Using a VXH264 with remote monitoring

- Cameras
- Alarm Trigger Devices
  E.g. PIR Detection
  CCTV Motion Detection
  Access Control Points
- Broadband Line
- PA System for Audio Deterrent
- VXH264 can be retro-fitted into an existing installation

Contact our sales team to find out how to offer your customers more with professional remote monitoring

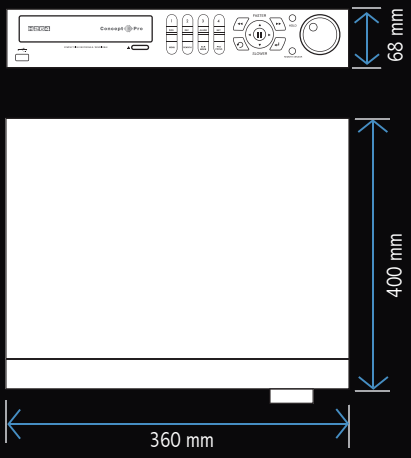
Tel: +44(0)1924 528000

www.videcon.co.uk/Think

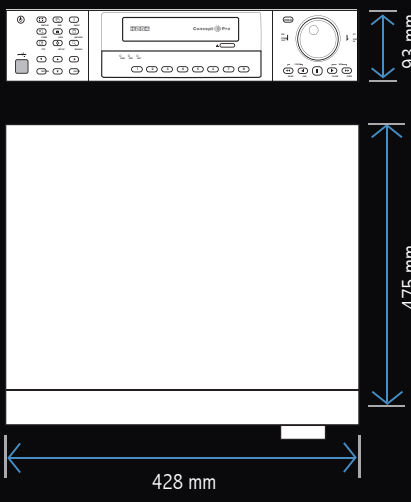
Think Remote Monitoring
Think Concept Pro
Think VXH264

Model		VXH264-4	VXH264-8	VXH264-16
Operation	Genuine Pentaplex	Simultaneous recording, playback, network live view, network playback, network remote set-up. Frame rate unaffected		
Video in	Channels	4	8	16
	Connection	BNC, 1.0Vpp composite 75ohm unbalanced		
	Loop through	BNC, 1.0Vpp composite 75ohm unbalanced, auto-termination		
Audio in	Channels	4		
	Connection	RCA, line level unbalanced		
Main displays	BNC	1.0Vpp composite 75ohm unbalanced		
	DVI (4CH)	25PIN DVI Socket 1028 x 768 : DVI to VGA adaptor included	N/A	N/A
	VGA (8CH, 16CH)	N/A	15 pin D-SUB 1024 x 768 @ 60Hz	
	S-Video	N/A	4 pin mini din Y/C	
	HDMI	N/A	Single HDMI Socket. Max. 1024 x 768 @ 60Hz	
	Screen display modes	1, 4	1, 4, 6 (1+5), 8 (1+7), 9	1, 4, 6 (1+5), 8 (1+7), 9, 16
	Sequence	Adjustable dwell time	Adjustable dwell time, user-defined sequences	
	Digital zoom	N/A	Between 2x & 4x	
Spot displays	Channels	1	2, fully programmable	4, fully programmable
	Connection	BNC, 1.0Vpp composite 75ohm unbalanced		
	Display mode	Full screen sequence, adjustable dwell-time		
Audio out	Channels	1		
	Connection	RCA, line level unbalanced		
External alarm	Inputs	4, NO or NC common ground	8, NO or NC common ground	16, NO or NC common ground
	Outputs	1, SPDT relay	8, high(+5V)or low (0V) selectable, common ground + 4 Relay Out	16, high(+5V)or low (0V) selectable, common ground + 4 Relay Out
User interface	On-screen display	GUI		
	Control	Mouse, Front panel, IR Remote and / or VA-KBDPRO+ PTZ Keyboard		
Recording	Video CODEC	H.264		
	Resolution options for each channel	CIF (352 x 288), 2 CIF (704 x 288), D1 (704 x 576)		
	Maximum total frame rate	100FPS (2CIF)	200FPS (CIF)	400FPS (CIF)
	Image quality	Super, Highest, High, Standard, Low		
	Pre-event recording	5 seconds max		
	Recording modes	Schedule/motion detection/alarm Panic - Via GUI only	Schedule/motion detection/alarm/panic	Schedule/motion detection/alarm/panic
	Frame rate options for each channel	25 - 13 - 7 - 3 - 2 - 1	25 - 13 - 7 - 2 - 1	25 - 13 - 7 - 3 - 2 - 1 - 0
	Schedule	Per channel, per hour, per day / week		
	Configurable recording time limits	12 hours, 1 day, 2 days, 3 days, 4 days, 5 days, 6 days, 1 week, 2 weeks, 3 weeks, 1 month, 2 month		
	Audio	Audio inputs independently assigned to each channel		
	Motion detection	16 x 16 selectable grid with 10 levels of sensitivity		
	Covert recording	Yes, selectable by channel		
	Camera title	8 Characters (Max)		
Playback	Speed	Forward / reverse. 1x, 2x, 4x, 8x, 16x, 32x, 64x		
	Control	Front panel buttons and Jog / Shuttle ring, mouse		
	Search method	Calendar / timeline, event log, instant playback, Pano		
	Split screen display modes	1,4	1,4,9	1,4,16
	Audio synchronization	Yes, any frame rate		
Archiving	Storage	CD-R (DVD±R option), USB Memory stick, Network		
	Format	Watermarked AVI		
	Archive data	Independent channel selection, back-up log, event log		
Time	Time zone	Worldwide, selectable		
	DST	Yes		
	Time synchronisation	Internet time server		
PTZ	RS-485	Yes		
System	Watchdog	Yes		
	Abnormal shutdown detection	Yes, with system auto recovery		
	HDD Error detection	Yes, SMART monitoring		
	System data backup / restore	Yes, USB memory stick		
Network	Connection	RJ45		
	Simultaneous connections	4 (max)		
	DHCP	Yes		
	DDNS	Yes		
	Two way network audio	Yes		
	Bandwidth management	Yes		
Remote Access	I.E Browser	Yes		
	Remote configuration	Yes		
	Remote PTZ control	Yes		
	Email event notification	Yes		
Storage	Maximum Capacity	Currently 1Tb	Currently 8Tb	
	Storage	2x HDD Maximum	4x HDD Maximum	
	Recording options	Stop when full / overwrite		
Event handling	Source	Alarm in, motion detection, video loss, HDD error, Panic		
	Action	Record, alarm out, email notification, log, remote client pop-up, buzzer, full screen pop-up		
Security	User levels	ADMIN, MANAGER*, USER* (*Configurable)		
	Key Lock	N/A	Yes, password protected	
Physical	Dimensions	360mm(w)x400mm(d)x68mm(h)	428mm(w)x475mm(d)x93mm(h)	
	Weight	4.5Kg (without HDD)	4.8Kg (without HDD)	

VXH264-4
4 Channel



VXH264-8 / VXH264-16
8 &16 Channel



Order Codes

4 CHANNEL

VXH264-4/500	500Gb HDD
VXH264-4/1000	1Tb HDD

8 CHANNEL

VXH264-8/500	500Gb HDD
VXH264-8/1000	1Tb HDD
VXH264-8/2000	2Tb HDD
VXH264-8/3000	3Tb HDD
VXH264-8/4000	4Tb HDD
VXH264-8/6000	6Tb HDD
VXH264-8/8000	8Tb HDD

16 CHANNEL

VXH264-16/500	500Gb HDD
VXH264-16/1000	1Tb HDD
VXH264-16/2000	2Tb HDD
VXH264-16/3000	3Tb HDD
VXH264-16/4000	4Tb HDD
VXH264-16/6000	6Tb HDD
VXH264-16/8000	8Tb HDD

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